

CLAIM AMENDMENTS

Claims 1-20 (canceled).

Claim 21 (currently amended): A plastic water and beverage bottle adapted for preserving a liquid, comprising:

a liquid container, which is made of plastic material, having an exterior surface and comprising a plastic made container body having a liquid chamber for storing said liquid therein and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber; and

a protective arrangement integrally provided on said liquid container, comprising:

a nano titanium oxide integrally formed on said liquid container for blocking ultra-violet light entering into said liquid chamber of said liquid container; and

a far infrared ray emitter comprising ceramic powders mixing with said nano titanium oxide to form an anti-germ mixture, wherein said anti-germ mixture is integrated with- integrally mixed with said plastic material to become a compound material as a raw material integrally forming said container body and said container cap of said liquid container, wherein said far infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid, in such a manner that ~~said exterior surface of said liquid container~~ forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claims 22-23 (canceled).

Claim 24 (currently amended): The plastic water and beverage bottle, as recited in claim ~~23~~ 21, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said ~~raw plastic~~ plastic material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said ~~raw plastic~~ plastic material of said liquid container, wherein said far infrared ray emitter is in 1:1 weight ration with said nano titanium oxides.

Claims 25-27 (canceled).

Claim 28 (previously presented): The plastic water and beverage bottle, as recited in claim 24, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 29 (previously presented): A process of manufacturing a plastic water and beverage bottle which comprises the steps of:

(a) providing a plastic material suitable to form a liquid container for containing liquid therein ~~a liquid container having an exterior surface and comprising a plastic made container body having a liquid chamber for storing said liquid therein and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber;~~

(b) mixing a predetermined amount of ceramic powders of far infrared ray emitter with a nano titanium oxide to form an anti-germ solution, wherein said nano titanium oxide is for blocking ultra-violet light entering into said a liquid chamber of said liquid container, and said infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid; and

(c) mixing said plastic material with said anti-germ solution to form a compound material as a raw material; ~~integrally applying said anti-germ solution at said liquid container such that said exterior surface of said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.~~

(d) forming said liquid container by said raw material, wherein said liquid container comprises a plastic made container body having said liquid chamber and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber, wherein said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claims 30-31 (canceled).

Claim 32 (currently amended): The process, as recited in claim ~~34~~ 29, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said ~~raw~~ plastic material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said ~~raw~~ plastic material of said liquid container, wherein said far infrared ray emitter is in 1:1 weight ration with said nano titanium oxides.

Claims 33-35 (canceled).

Claim 36 (previously presented): The process, as recited in claim 32, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.